

SEQUENCE LISTING

<110> SAPPORO BREWERIES LTD.

<120> Method of differentiating beer yeast

<130> FP01-0218-00

<140>

<141>

<150> Japan P2001-034113

<151> February 9, 2001

<160> 16

<170> PatentIn Ver. 2.1

<210> 1

<211> 479

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 1

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taatgcatat ttatTTTTTtTc acaagttgca tgctaataat accatgatat tTTTTTtgaa 180
 gcottgaaaa atagttcaag cagctacgat atcatgaatc aatatactca ttgcagccta 240
 tgtaatatat ataggttccg tgttaccact cgTTTTctgat atTTTtcgata tggctacact 300
 gggTTTTtca tgatggaaat gtgatactac cagttccaat atatttatct tccttatcta 360
 tatgacacgc tgttatTTTta gttcaagtca gtgtccaatt gaagtgagtg tcacgtgcac 420
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<210> 2

<211> 448

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 2

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 cttactgtaa ctatagcatg ttacatatat gtaccataag tatcacatta aggtttcgcc 180
 atagccatgt gcctatatta aatagaaata tcacatggcg atccacggaa tgtttataga 240
 ttttcttctt ttgtctatgg cccgggagag acattaattt atcttgctga aaaattcgaa 300
 agttaaact caattatgcg tgggatttct caattaggtt accagaattt caatctgctg 360
 aagaattatg tcttaaaaaa aaaaagtccc gcctcaaaaa agccaaaaag ggtgtgactg 420
 tagattgtgg gtaacttget gtcaaatg 448

<210> 3

<211> 513

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 3

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 aatcctatatt gaaactctta ttaataaata aagtataaat ataataaagt ttattgtgag 180
 acatgtcgcg ataagcacc cttgtctttc ttggaagggg gaaatttgta atataaagcc 240
 aagtgtctcag aactcgattt ttttctgacc aaagagcgga agctccacta taaaagttgg 300
 gaggtacttt taggttctct taagttcgca ttttaattatg gcctgaacga ttttactgtg 360
 gacaataagt gaaataaagt tccttaaaat gtgtacgatg tgtacacatc aacctactct 420
 ccccttcatt ggcagaagag ggaaccattt catccaaaaa aaataaaaaa ataaaaaaaa 480
 tccaaatatt aagctaaaaa aatacttaac tgt 513

<210> 4

<211> 473

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 4

tttaattcct cagttaaaaa aattagttta agaaagcaag aacgaaaata ccgaccaatg 60
 cattcaaagt attggcattc aaacctgcgg caataccctc ggactggaca atgataccag 120
 tagaggtcct tattggagct gcagatttgg agtatgtggg aaattgcact agaagccttg 180
 gaaatggcag tagtcaatga gggtgcttta gaaccctcag aagtgcaggt agtgtatgac 240
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taggggcagc actggtttct gaagtttctg aagtttcttt aggagcttca gaagtgcag 420
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<210> 5

<211> 276

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 5

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agaagtaata gtggcggtag tggatgagca tggaacggtt gtggtaatgg tatagacgtt 120
accattggag tcagttgtct ctgaacaaga aactacgact gtgcttgtgg catttacata 180
gtctagtgtt gtagtgtaaa cagatgttga accggtaacg gaagcaccaa atgaagtgga 240
agcagttgaa ccggtaacgg aagcaccgaa tgaagt 276

<210> 6

<211> 590

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 6

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caacaggaat aggagtggca ttggtttcgg ttgggtcaac agcaaggaca ctttcaccct 180
 tgaatacaac agtttggcca gtaaagtgtg cagggtagtg taagtatagg ttaccggaaa 240
 tgatgttgac tgtacctttt ccagaaactg gttcgacaat aacataggta cttccattgt 300
 ctaggttaat ttcaccgttg ttactgaac cttcagtgtc gtctctacgt tgtagaccgg 360
 aaacagaacc accgttgaga atagcgttcg agaaagagaa ggcaccagaa ttggagtatg 420
 gagagaaagt gacttcaccc ttcttgact ttgatagact taaggaaatg tcaccactgt 480
 tgtcaaaaga acttgagtg aaggagtaga tggatgcaga ggtggcagcg gattcttcag 540
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<210> 7

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic poly
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<400> 7

ggaataactgc ctcttgagat

20

<210> 8

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic poly
nucleotide

<400> 8

ggattcttca gcgttgaagt

20

<210> 9

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic poly
nucleotide

<400> 9

aacgtagcat caggaagtac acaagcatgc

30

<210> 10

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic poly
nucleotide

<400> 10

gatcgggtaa tagtaaccgg cgtacatgta

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<210> 11

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Synthetic poly
nucleotide

<400> 11

ggaataactgc ctcttgagat

20

<210> 12

<211> 20

<212> DNA

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<213> Artificial Sequence

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<223> Description of Artificial Sequence:Synthetic poly
nucleotide

<400> 12

ttaccatagc attgccagca

20

<210> 13

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Synthetic poly
nucleotide

<400> 13

ttccaaccag tagttccacc

20

<210> 14

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Synthetic poly
nucleotide

<400> 14

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20

<210> 15

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic poly
nucleotide

<400> 15

actagaattt aggcactttc aaccagccc

30

<210> 16

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic poly
nucleotide

<400> 16

gctgcaaccg gaagttattc cttctccact

30

2005-04-22 14:00:00